Device for measuring the internal diameter of a pipe with inspection camera

BACKGROUND OF THE INVENTION:

Field of the invention:

The present invention relates to a device for measuring the internal diameter of a pipe with inspection camera.

Description of the related art:

A search of prior art records has unveiled the following patents:

1. CA **2,046,492** registered in 1991 to Barski;
2. CA **1,134,872** issued in 1982 to Passamoni;
3. CA **2,218,436** registered in 1942 to Wiercienski;
4. CA **512,624** issued in 1955 to Bissell;
5. CA **438,857** issued in 1946 to Levin;
6. CA **2,074,640** registered in 1992 to Rafilipomanana; and
7. CA **2,278,046** registered in 1997 to Prakken.

As can be seen the patents mentioned above are probably the most relevant. The present invention relates to a device for measuring the internal diameter of a pipe with inspection camera.

Summary of the invention:

It has been discovered that the present invention described herein allows to

measure the internal diameter of a pipe with inspection camera.

Brief description of the several views of the drawing(s):

Figure **1** is a perspective view of a device for measuring the internal diameter of a pipe -as shown in phantom lines- with inspection camera;

Figure **2** is a perspective view of the device;

Figure **3** is a front view thereof; and

Figure **4** is an exploded view thereof.

Detailed description of the invention:

Referring to the drawings 1 to 4, a device (**A**) for measuring the internal diameter of a pipe with inspection camera, which comprises a tape (**1**) that is mounted inside of a flat elongated body (**4**) including holes (**9**) enabling to a string (**3**) to be pulled out of the elongated body (**4**).

So, the string (**3**) pulls the tape (**1**) out of the flat elongated body (**4**) for measuring the internal diameter of the pipe with the inspection camera, and thereafter an elastic band (**2**) brings the tape (**1**) in the elongated body (**4**). The tape (**1**) including hole (**11**) at one end for using a connecting means (**12**) joining the elastic band (**2**) and the string (**3**) to the tape (**1**), and which a circular member (**6**) is connected at the other end of the tape (**1**) for

keeping the device at a right angle in bottom of the pipe when reading the diameter of the pipe with the inspection camera, and for blocking the tape (**1**) at the input of the elongated body (**4**) when the elastic band (**2**) brings the tape (**1**) inside the elongated body (**4**).

The flat elongated body (**4**) has at one end a tongue including hole (**10**) in which is connected the other end of the elastic band (**2**).

A multitude of fastening pieces (**5**) enable to fix the inspection camera -as shown in phantom lines- to the elongated body (**4**).

A metal part (**7**) is located between the elongated body (**4**) and the wire of the inspection camera for maintain the device (**A**) in bottom of the pipe.

An extension body (**8**) may be connected to one end of the elongated body (**4**) if needed (see fig. 1).

Although only a single embodiment of the present invention has been described and illustrated, the present invention is not limited to the features of this embodiment, but includes all variations and modifications within the scope of claims attached hereto without departing from the spirit of the invention.